

DERWENT- 2001-227550

ACC-NO:

DERWENT- 200523

WEEK:

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TITLE: Xanthohumol containing hop extract, useful as additive for
beer and non-alcoholic drinks and for treatment of cancers

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PATENT-ASSIGNEE: PLANTEXTRAKT GMBH & CO KG[PLANN]

PRIORITY-DATA: 1999DE-1039350 (August 19, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
DE 19939350 A1	February 22, 2001	DE
DE 19939350 B4	April 7, 2005	DE

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
DE 19939350A1	N/A	1999DE-1039350	August 19, 1999
DE 19939350B4	N/A	1999DE-1039350	August 19, 1999

INT-CL-
CURRENT:

TYPE	IPC DATE
CIPS	<u>C12 C 3/08</u> 20060101

ABSTRACTED-PUB-NO: DE 19939350 A1

BASIC-ABSTRACT:

NOVELTY - A hop extract with a high xanthohumol content, is new.

DESCRIPTION - An INDEPENDENT CLAIM is also included for the
preparation of the novel hop extract.

None given.

USE - The extract can be added to beer, fruit-based drinks and tea-like drinks, e.g. iced tea. It is particularly added to cloudy beers and non-alcoholic drinks based on naturally cloudy juices and pulps. It may also be used in the treatment of cancers.

ADVANTAGE - The hop extract has a higher xanthohumol content than prior art hop extracts and is easy to process.

EQUIVALENT-ABSTRACTS:

PHARMACEUTICALS

Preferred Extract: The extract contains 2-20, preferably 5-15 %, by weight xanthohumol, and is preferably in the form of a paste. The extract also contains a starch-based carrier, especially maltodextrin. The maximum carrier content is 60 % based on total dry extract and carrier.

Preparation: The extract is prepared by extraction of a hop product with an organic solvent or alkaline water.

Preferred Method: The hop product is subjected to a pre -extraction with water. The organic solvent is aqueous alcohol, preferably aqueous ethanol, especially with an alcohol:water weight ratio of 30:70 up to 80:20. Other solvents which can be used include esters, e.g. ethyl acetate, and ketones, e.g. acetone. When alkaline water is used for the extraction, it comprises water containing 0.05-10 % NaOH or KOH. The initially obtained extract is processed to a paste and this is then mixed with a starch-based carrier, especially a maltodextrin solution, and the mixture is spray-dried to a powder.

Dried hops (100 kg) are extracted with deionized water (2000 l) at 95 degrees C for 1 hour and the residual spent hop material is then extracted with aqueous ethanol (2000 l; 50 %, by weight EtOH) at 50 degrees C for 1 hour. The separated EtOH extract is vacuum concentrated at 70 degrees C to a paste (50-70 % dry content) containing 5-10 %, by weight, xanthohumol. The paste is mixed with maltodextrin and the mixture is spray-dried to a powder.

TITLE- CONTAIN HOP EXTRACT USEFUL ADDITIVE BEER NON ALCOHOLIC
TERMS: DRINK TREAT CANCER

DERWENT-CLASS: B05 D13 D16

CPI-CODES: B04-A08; B04-A10; B11-B; B11-C09; D03-H01G; D05-E;

CHEMICAL- Chemical Indexing M1 *01* Fragmentation Code M423 M431
CODES: M710 M720 M782 N161 P631 P633 Q233 Specific Compounds

RA00C5 Registry Numbers 200613

Chemical Indexing M1 *02* Fragmentation Code M423 M431
M710 M720 M782 N161 P631 P633 Q233 Specific Compounds
RA01JH Registry Numbers 100049

Chemical Indexing M2 *03* Fragmentation Code G013 G018
G100 H4 H403 H443 H5 H541 H7 H722 H8 J5 J581 M1 M121 M135
M210 M211 M215 M232 M240 M272 M281 M312 M321 M332 M342
M372 M391 M414 M431 M510 M520 M532 M540 M710 M720 M782
N161 P631 P633 Q233 Specific Compounds RA3CH8 Registry
Numbers 156820

Chemical Indexing M6 *04* Fragmentation Code P631 P633
Q220 Q233 R021 R535

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: 2001-068093